

SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2015/830

MULTI SPRAY

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : MULTI SPRAY
Registration number REACH : Not applicable (mixture)
Product type REACH : Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant identified uses

Detergent according to Regulation (EC) No 648/2004

1.2.2 Uses advised against

No uses advised against

1.3. Details of the supplier of the safety data sheet

Supplier of the safety data sheet

Novatio*
Industrielaan 5B
B-2250 Olen
☎ +32 14 25 76 40
☎ +32 14 22 02 66
info@novatio.be
*NOVATIO is a registered trademark of Novatech International N.V.

Manufacturer of the product

Novatech International N.V.
Industrielaan 5B
B-2250 Olen
☎ +32 14 85 97 37
☎ +32 14 85 97 38
info@tec7.be

1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch) :
+32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

| Class | Category | Hazard statements |
|---------|------------|---|
| Aerosol | category 1 | H222: Extremely flammable aerosol. |
| Aerosol | category 1 | H229: Pressurised container: May burst if heated. |

2.2. Label elements



Signal word Danger

H-statements
H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.

P-statements
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122°F.

2.3. Other hazards

Gas/vapour spreads at floor level: ignition hazard

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name REACH Registration No | CAS No EC No List No | Conc. (C) | Classification according to CLP | Note | Remark |
|---|----------------------------|-----------|--|------------|-------------|
| hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics 01-2119457273-39 | 918-481-9 | C≤30% | Asp. Tox. 1; H304 | (1)(10) | Constituent |
| white mineral oil (petroleum) 01-2119487078-27 | 8042-47-5 232-455-8 | C≤20% | Asp. Tox. 1; H304 | (1)(2)(10) | Constituent |
| butane 01-2119474691-32 | 106-97-8 203-448-7 | C≤40% | Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280 | (1)(2)(10) | Propellant |
| propane 01-2119486944-21 | 74-98-6 200-827-9 | C≤30% | Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280 | (1)(2)(10) | Propellant |

(1) For H-statements in full: see heading 16

(2) Substance with a Community workplace exposure limit

(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

Note: numbers 9xx-xxx-x are provisional list numbers assigned by Echa pending an official EC inventory number

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

If you feel unwell, seek medical advice.

After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

After skin contact:

Rinse with water. Do not apply (chemical) neutralizing agents without medical advice. Take victim to a doctor if irritation persists.

After eye contact:

Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply (chemical) neutralizing agents without medical advice. Take victim to an ophthalmologist if irritation persists.

After ingestion:

Rinse mouth with water. Do not apply (chemical) neutralizing agents without medical advice. Consult a doctor/medical service if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

4.2.1 Acute symptoms

After inhalation:

EXPOSURE TO HIGH CONCENTRATIONS: Headache. Vomiting. Abdominal pain. Disturbances of consciousness.

After skin contact:

No effects known.

After eye contact:

Redness of the eye tissue.

After ingestion:

No effects known.

4.2.2 Delayed symptoms

No effects known.

4.3. Indication of any immediate medical attention and special treatment needed

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher.

5.1.2 Unsuitable extinguishing media:

Small fire: Quick-acting CO2 extinguisher, Water (water can be used to control jet flame), Foam.

Major fire: Water (water can be used to control jet flame), Foam.

5.2. Special hazards arising from the substance or mixture

Upon combustion: CO and CO2 are formed. Pressurised container: May burst if heated.

5.3. Advice for firefighters

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5.3.1 Instructions:

If exposed to fire cool the closed containers by spraying with water. Physical explosion risk: extinguish/cool from behind cover. Do not move the load if exposed to heat. After cooling: persistent risk of physical explosion.

5.3.2 Special protective equipment for fire-fighters:

Gloves. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment.

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves. Protective clothing.

Suitable protective clothing

See heading 8.2

6.2. Environmental precautions

Dam up the liquid spill.

6.3. Methods and material for containment and cleaning up

Take up liquid spill into absorbent material. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4. Reference to other sections

See heading 13.

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1. Precautions for safe handling

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Gas/vapour heavier than air at 20°C. Observe normal hygiene standards.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Storage temperature: < 50 °C. Keep out of direct sunlight. Fireproof storeroom. Meet the legal requirements.

7.2.2 Keep away from:

Heat sources, ignition sources.

7.2.3 Suitable packaging material:

Aerosol.

7.2.4 Non suitable packaging material:

No data available

7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

Belgium

| | | |
|--|--|------------------------|
| Huiles minérales (brouillards) | Time-weighted average exposure limit 8 h | 5 mg/m ³ |
| | Short time value | 10 mg/m ³ |
| Hydrocarbures aliphatiques sous forme gazeuse: (Alcanes C1-C3) | Time-weighted average exposure limit 8 h | 1000 ppm |
| | Short time value | 980 ppm |
| | Short time value | 2370 mg/m ³ |

The Netherlands

| | | |
|---------------------------|---|---------------------|
| Olienevel (minerale olie) | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 5 mg/m ³ |
|---------------------------|---|---------------------|

France

| | | |
|----------|--|---------|
| n-Butane | Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) | 800 ppm |
|----------|--|---------|

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| | | |
|----------|--|------------------------|
| n-Butane | Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) | 1900 mg/m ³ |
|----------|--|------------------------|

Germany

| | | |
|--------------------------|---|------------------------|
| Butan | Time-weighted average exposure limit 8 h (TRGS 900) | 1000 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 2400 mg/m ³ |
| Propan | Time-weighted average exposure limit 8 h (TRGS 900) | 1000 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 1800 mg/m ³ |
| Weißes Mineralöl (Erdöl) | Time-weighted average exposure limit 8 h (TRGS 900) | 5 mg/m ³ |

UK

| | | |
|--------|---|------------------------|
| Butane | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 600 ppm |
| | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 1450 mg/m ³ |
| | Short time value (Workplace exposure limit (EH40/2005)) | 750 ppm |
| | Short time value (Workplace exposure limit (EH40/2005)) | 1810 mg/m ³ |

USA (TLV-ACGIH)

| | | |
|--|--|-------------------------|
| Butane, all isomers | Short time value (TLV - Adopted Value) | 1000 ppm |
| Mineral oil, pure, highly and severely refined | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 5 mg/m ³ (l) |

(l): Inhalable fraction

b) National biological limit values

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods

| Product name | Test | Number |
|--------------------|-------|--------|
| Oil Mist (Mineral) | NIOSH | 5026 |

8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

8.1.4 Threshold values

If applicable and available it will be listed below.

8.1.5 Control banding

If applicable and available it will be listed below.

8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Measure the concentration in the air regularly.

8.2.2 Individual protection measures, such as personal protective equipment

Observe normal hygiene standards. Do not eat, drink or smoke during work.

a) Respiratory protection:

Full face mask with filter type A at conc. in air > exposure limit.

b) Hand protection:

Protective gloves against chemicals (EN 374).

| Materials | Measured breakthrough time | Thickness | Protection index |
|----------------|----------------------------|-----------|------------------|
| nitrile rubber | > 480 minutes | 0.35 mm | Class 6 |

c) Eye protection:

Protective goggles.

d) Skin protection:

Protective clothing.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---------------------|---------------------------------------|
| Physical form | Aerosol |
| Odour | Characteristic odour |
| Odour threshold | No data available |
| Colour | No data available on colour |
| Particle size | Not applicable (liquid) |
| Explosion limits | No data available |
| Flammability | Extremely flammable aerosol. |
| Log Kow | Not applicable (mixture) |
| Dynamic viscosity | 1 mPa.s ; 20 °C ; Liquid |
| Kinematic viscosity | 1 mm ² /s ; 20 °C ; Liquid |
| Melting point | No data available |
| Boiling point | 187 °C - 300 °C ; Liquid |

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| | |
|---------------------------|--|
| Evaporation rate | 0.04 ; Butyl acetate ; Liquid |
| Relative vapour density | No data available |
| Vapour pressure | 8530 hPa ; 20 °C |
| Solubility | Water ; insoluble |
| Relative density | 0.81 ; 20 °C ; Liquid |
| Decomposition temperature | No data available |
| Auto-ignition temperature | No data available |
| Flash point | Not applicable |
| Explosive properties | No chemical group associated with explosive properties |
| Oxidising properties | No chemical group associated with oxidising properties |
| pH | No data available |

9.2. Other information

| | |
|------------------|--|
| Absolute density | 810 kg/m ³ ; 20 °C ; Liquid |
|------------------|--|

SECTION 10: Stability and reactivity

10.1. Reactivity

May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Precautionary measures

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

Upon combustion: CO and CO₂ are formed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

11.1.1 Test results

Acute toxicity

MULTI SPRAY

No (test)data on the mixture available

Judgement is based on the relevant ingredients

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|----------------------|-----------|------------------------|-----------------|---------------|------------------------|---------------------|--------|
| Oral | LD50 | Equivalent to OECD 401 | > 5000 mg/kg bw | | Rat (male / female) | Read-across | |
| Dermal | LD50 | Equivalent to OECD 402 | > 3160 mg/kg bw | 24 h | Rabbit (male / female) | Read-across | |
| Inhalation (aerosol) | LC50 | Equivalent to OECD 403 | > 5.6 mg/l | 4 h | Rat (male) | Read-across | |

white mineral oil (petroleum)

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|----------------------|-----------|------------------------|-----------------|---------------|------------------------|---------------------|--------|
| Oral | LD50 | Equivalent to OECD 401 | > 5000 mg/kg bw | | Rat (male / female) | Read-across | |
| Dermal | LD50 | Equivalent to OECD 402 | > 2000 mg/kg bw | 24 h | Rabbit (male / female) | Read-across | |
| Inhalation (aerosol) | LC50 | Equivalent to OECD 403 | > 5 mg/l | 4 h | Rat (male / female) | Read-across | |

Conclusion

Not classified for acute toxicity

Corrosion/irritation

MULTI SPRAY

No (test)data on the mixture available

Judgement is based on the relevant ingredients

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hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|----------------|------------------------|---------------|------------------|---------|---------------------|------------------|
| Eye | Not irritating | OECD 405 | | 24; 48; 72 hours | Rabbit | Read-across | Single treatment |
| Skin | Not irritating | Equivalent to OECD 404 | 4 h | 24; 48; 72 hours | Rabbit | Read-across | |

white mineral oil (petroleum)

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|----------------|------------------------|---------------|------------------|---------|---------------------|----------------------------------|
| Eye | Not irritating | Equivalent to OECD 405 | | 24; 48; 72 hours | Rabbit | Read-across | Single treatment without rinsing |
| Skin | Not irritating | Equivalent to OECD 404 | 24 week(s) | 24; 72 hours | Rabbit | Read-across | |

Conclusion

Not classified as irritating to the skin
Not classified as irritating to the eyes

Respiratory or skin sensitisation

MULTI SPRAY

No (test) data on the mixture available

Judgement is based on the relevant ingredients

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|------------------------|---------------|------------------------|---------------------|---------------------|--------|
| Skin | Not sensitizing | Equivalent to OECD 406 | | 24; 48 hours | Guinea pig (female) | Read-across | |

white mineral oil (petroleum)

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|------------------------|---------------|------------------------|-------------------|---------------------|--------|
| Skin | Not sensitizing | Equivalent to OECD 406 | 24 week(s) | 48 hours | Guinea pig (male) | Read-across | |

Conclusion

Not classified as sensitizing for skin
Not classified as sensitizing for inhalation

Specific target organ toxicity

MULTI SPRAY

No (test) data on the mixture available

Judgement is based on the relevant ingredients

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|----------------------|-----------|------------------------|------------------------------|-------|-----------|------------------------------------|---------------------|---------------------|
| Oral (stomach tube) | NOAEL | Equivalent to OECD 422 | ≥ 1000 mg/kg bw/day | | No effect | | Rat (male / female) | Read-across |
| Dermal | | | | | | | | Data waiving |
| Inhalation (vapours) | NOAEC | Equivalent to OECD 413 | ≥ 2200 mg/m ³ air | | No effect | 14 weeks (6h / day, 5 days / week) | Rat (female) | Read-across |

white mineral oil (petroleum)

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|----------------------|------------------------|------------------------|----------------------|-------|-----------------------------|-----------------------------------|---------------------|---------------------|
| Oral (diet) | NOAEL | OECD 453 | ≥ 1200 mg/kg bw/day | | No effect | 24 month(s) | Rat (male / female) | Read-across |
| Dermal | NOAEL systemic effects | OECD 411 | ≥ 2000 mg/kg bw/day | | No adverse systemic effects | 13 weeks (daily) | Rat (male / female) | Read-across |
| Inhalation (aerosol) | NOEL | Equivalent to OECD 412 | 50 mg/m ³ | Lungs | No effect | 4 weeks (6h / day, 5 days / week) | Rat (male / female) | Read-across |

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

MULTI SPRAY

No (test) data on the mixture available

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| Result | Method | Test substrate | Effect | Value determination | Remark |
|---|----------|-----------------------------------|-----------|---------------------|--------|
| Negative with metabolic activation, negative without metabolic activation | OECD 471 | Bacteria (<i>S.typhimurium</i>) | No effect | Read-across | |

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white mineral oil (petroleum)

| Result | Method | Test substrate | Effect | Value determination | Remark |
|----------|------------------------|--------------------------|-----------|---------------------|--------|
| Negative | Equivalent to OECD 471 | Bacteria (S.typhimurium) | No effect | Read-across | |

Mutagenicity (in vivo)

MULTI SPRAY

No (test)data on the mixture available

Judgement is based on the relevant ingredients

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|----------|------------------------|---------------|----------------|-------|---------------------|
| Negative | Equivalent to OECD 478 | | Rat (male) | | Read-across |

white mineral oil (petroleum)

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|----------------------------|----------|---------------|-----------------------|-------------|---------------------|
| Negative (Intraperitoneal) | OECD 474 | | Mouse (male / female) | Bone marrow | Read-across |

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

MULTI SPRAY

No (test)data on the mixture available

Judgement is based on the relevant ingredients

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|----------------------|-----------|------------------------|------------------------------|-------------------------------------|--------------|------------------------|-------|---------------------|
| Inhalation (vapours) | NOAEC | Equivalent to OECD 453 | ≥ 2200 mg/m ³ air | 105 weeks (6h / day, 5 days / week) | Rat (female) | No carcinogenic effect | | Read-across |

white mineral oil (petroleum)

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|-------------------|-----------|----------|---------------------|----------------------------|---------------------|------------------------|-------|---------------------|
| Dermal | NOEL | OECD 453 | ≥ 75 µl/week | 104 weeks (3 times / week) | Mouse (male) | No carcinogenic effect | | Read-across |
| Oral | NOAEL | OECD 453 | ≥ 1200 mg/kg bw/day | 24 month(s) | Rat (male / female) | No carcinogenic effect | | Read-across |

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

MULTI SPRAY

No (test)data on the mixture available

Judgement is based on the relevant ingredients

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|------------------------|-----------|------------------------|--------------------------|--------------------|--------------|-----------|-------|---------------------|
| Developmental toxicity | NOAEC | | ≥ 1575 mg/m ³ | 10 days (6h / day) | Rat (female) | No effect | | Experimental value |
| Maternal toxicity | NOAEL | Equivalent to OECD 414 | ≥ 5220 mg/kg bw/day | 10 day(s) | Rat | No effect | | Experimental value |

white mineral oil (petroleum)

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|--|-----------|------------------------|---------------------|----------------------------|---------------------|-----------|-------|---------------------|
| Developmental toxicity (Oral (stomach tube)) | NOAEL | Equivalent to OECD 414 | > 5000 mg/kg bw/day | 14 days (gestation, daily) | Rat | No effect | | Read-across |
| Maternal toxicity (Oral (stomach tube)) | NOAEL | Equivalent to OECD 414 | > 5000 mg/kg bw/day | 14 days (gestation, daily) | Rat | No effect | | Read-across |
| Effects on fertility (Dermal) | NOAEL | Equivalent to OECD 415 | ≥ 2000 | ≥ 13 weeks (5 days / week) | Rat (male / female) | No effect | | Read-across |

Conclusion

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

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No (test)data on the mixture available

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hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|-----------|--------|-------|-------|--------------------------|---------------|---------|--------------------------|
| | | | Skin | Skin dryness or cracking | | | Literature study Skin |

Chronic effects from short and long-term exposure

MULTI SPRAY

No effects known.

SECTION 12: Ecological information

12.1. Toxicity

MULTI SPRAY

No (test) data on the mixture available

Judgement of the mixture is based on the relevant ingredients

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|----------|-------------|----------|---------------------------------|--------------------|------------------|-------------------------|
| Acute toxicity fishes | LL50 | OECD 203 | > 1000 mg/l | 96 h | Oncorhynchus mykiss | Semi-static system | Fresh water | Experimental value; GLP |
| Acute toxicity crustacea | EL50 | OECD 202 | > 1000 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Experimental value; GLP |
| Toxicity algae and other aquatic plants | NOELR | OECD 201 | > 1000 mg/l | 72 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; GLP |
| Toxicity aquatic micro-organisms | EL50 | | > 1000 mg/l | 48 h | Tetrahymena pyriformis | | Fresh water | QSAR |

white mineral oil (petroleum)

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|------------------------|-------------|-----------|---------------------------------|--------------------|------------------|---|
| Acute toxicity fishes | LC50 | OECD 203 | > 100 mg/l | 96 h | Oncorhynchus mykiss | Static system | Fresh water | Experimental value; Nominal concentration |
| Acute toxicity crustacea | LC50 | OECD 202 | > 100 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Experimental value; Locomotor effect |
| Toxicity algae and other aquatic plants | NOEL | OECD 201 | ≥ 100 mg/l | 72 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Weight of evidence; Growth rate |
| Long-term toxicity fish | NOEL | | ≥ 1000 mg/l | 28 day(s) | Oncorhynchus mykiss | | Fresh water | QSAR |
| Long-term toxicity aquatic crustacea | NOEL | Equivalent to OECD 211 | 10 mg/l | 21 day(s) | Daphnia magna | Semi-static system | Fresh water | Read-across; GLP |

Conclusion

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

12.2. Persistence and degradability

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Biodegradation water

| Method | Value | Duration | Value determination |
|---|-----------|-----------|---------------------|
| OECD 301F: Manometric Respirometry Test | 80 %; GLP | 28 day(s) | Read-across |

Biodegradation soil

| Method | Value | Duration | Value determination |
|------------------------------------|-------------------------------------|-----------|---------------------|
| Equivalent or similar to OECD 304A | 59.7 % - 62.6 %; Oxygen consumption | 61 day(s) | Read-across |

white mineral oil (petroleum)

Biodegradation water

| Method | Value | Duration | Value determination |
|---|-----------|-----------|---------------------|
| OECD 301F: Manometric Respirometry Test | 31 %; GLP | 28 day(s) | Read-across |

Phototransformation air (DT50 air)

| Method | Value | Conc. OH-radicals | Value determination |
|--------------|-------------------------|--------------------------|---------------------|
| AOPWIN v1.90 | 0.1 day(s) - 0.6 day(s) | 1500000 /cm ³ | Calculated value |

Biodegradation soil

| Method | Value | Duration | Value determination |
|--------|-------|----------|---------------------|
| | | | Data waiving |

Conclusion

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Contains non readily biodegradable component(s)

12.3. Bioaccumulative potential

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Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|--------------------------|-------|-------------|---------------------|
| | Not applicable (mixture) | | | |

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|-------------------|-------|-------------|---------------------|
| | No data available | | | |

white mineral oil (petroleum)

BCF fishes

| Parameter | Method | Value | Duration | Species | Value determination |
|-----------|--------|-------|----------|---------|---------------------|
| | | | | | Data waiving |

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|--------|-------|-------------|---------------------|
| | | > 6 | | Calculated |

Conclusion

Contains bioaccumulative component(s)

12.4. Mobility in soil

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Percent distribution

| Method | Fraction air | Fraction biota | Fraction sediment | Fraction soil | Fraction water | Value determination |
|------------------|--------------|----------------|-------------------|---------------|----------------|---------------------|
| Mackay level III | 65.8 % | 0 % | 22.9 % | 9.6 % | 1.7 % | Calculated value |

white mineral oil (petroleum)

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|--------|-------|---------------------|
| | | | Data waiving |

Conclusion

Contains component(s) that adsorb(s) into the soil

12.5. Results of PBT and vPvB assessment

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

12.6. Other adverse effects

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Fluorinated greenhouse gases (Regulation (EU) No 517/2014)

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

white mineral oil (petroleum)

Groundwater

Groundwater pollutant

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1. Waste treatment methods

13.1.1 Provisions relating to waste

European Union

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

20 01 29* (separately collected fractions (except 15 01): detergents containing hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

13.1.2 Disposal methods

Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

13.1.3 Packaging/Container

European Union

Waste material code packaging (Directive 2008/98/EC).

15 01 10* (packaging containing residues of or contaminated by dangerous substances).

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SECTION 14: Transport information

Road (ADR)

| | | |
|------------------------------------|--|--|
| 14.1. UN number | UN number | 1950 |
| 14.2. UN proper shipping name | Proper shipping name | Aerosols |
| 14.3. Transport hazard class(es) | Hazard identification number | |
| | Class | 2 |
| | Classification code | 5F |
| 14.4. Packing group | Packing group | |
| | Labels | 2.1 |
| 14.5. Environmental hazards | Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | Special provisions | 190 |
| | Special provisions | 327 |
| | Special provisions | 344 |
| | Special provisions | 625 |
| | Limited quantities | Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass) |

Rail (RID)

| | | |
|------------------------------------|--|--|
| 14.1. UN number | UN number | 1950 |
| 14.2. UN proper shipping name | Proper shipping name | Aerosols |
| 14.3. Transport hazard class(es) | Hazard identification number | 23 |
| | Class | 2 |
| | Classification code | 5F |
| 14.4. Packing group | Packing group | |
| | Labels | 2.1 |
| 14.5. Environmental hazards | Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | Special provisions | 190 |
| | Special provisions | 327 |
| | Special provisions | 344 |
| | Special provisions | 625 |
| | Limited quantities | Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass) |

Inland waterways (ADN)

| | | |
|------------------------------------|--|--|
| 14.1. UN number | UN number | 1950 |
| 14.2. UN proper shipping name | Proper shipping name | Aerosols |
| 14.3. Transport hazard class(es) | Class | 2 |
| | Classification code | 5F |
| 14.4. Packing group | Packing group | |
| | Labels | 2.1 |
| 14.5. Environmental hazards | Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | Special provisions | 190 |
| | Special provisions | 327 |
| | Special provisions | 344 |
| | Special provisions | 625 |
| | Limited quantities | Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass) |

Sea (IMDG/IMSBC)

| | | |
|-----------------|-----------|------|
| 14.1. UN number | UN number | 1950 |
|-----------------|-----------|------|

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| | | |
|--|--|--|
| 14.2. UN proper shipping name | Proper shipping name | aerosols |
| 14.3. Transport hazard class(es) | Class | 2.1 |
| 14.4. Packing group | Packing group | |
| | Labels | 2.1 |
| 14.5. Environmental hazards | Marine pollutant | - |
| | Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | Special provisions | 63 |
| | Special provisions | 190 |
| | Special provisions | 277 |
| | Special provisions | 327 |
| | Special provisions | 344 |
| | Special provisions | 381 |
| | Special provisions | 959 |
| | Limited quantities | Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass) |
| 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code | Annex II of MARPOL 73/78 | Not applicable |

Air (ICAO-TI/IATA-DGR)

| | | |
|------------------------------------|--|---------------------|
| 14.1. UN number | UN number | 1950 |
| 14.2. UN proper shipping name | Proper shipping name | Aerosols, flammable |
| 14.3. Transport hazard class(es) | Class | 2.1 |
| 14.4. Packing group | Packing group | |
| | Labels | 2.1 |
| 14.5. Environmental hazards | Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | Special provisions | A145 |
| | Special provisions | A167 |
| | Special provisions | A802 |
| Passenger and cargo transport | Limited quantities: maximum net quantity per packaging | 30 kg G |

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

European legislation:

VOC content Directive 2010/75/EU

| VOC content | Remark |
|-------------|--------|
| 84 % | |
| 532.862 g/l | |

Ingredients according to Regulation (EC) No 648/2004 and amendments

≥30% aliphatic hydrocarbons, <5% anionic surfactants

European drinking water standards (Directive 98/83/EC)

white mineral oil (petroleum)

| Parameter | Parametric value | Note | Reference |
|--------------------|------------------|------|--|
| Pesticides | 0.1 µg/l | | Listed in Annex I, Part B, of Directive 98/83/EC on the quality of water intended for human consumption. |
| Pesticides — Total | 0.5 µg/l | | Listed in Annex I, Part B, of Directive 98/83/EC on the quality of water intended for human consumption. |

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

| | Designation of the substance, of the group of substances or of the mixture | Conditions of restriction |
|--|--|--|
| · hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics · white mineral oil (petroleum) | Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 | 1. Shall not be used in: — ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, — tricks and jokes, — games for one or more participants, or any article intended to be used as such, even |

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Date of revision: 2019-05-06

Revision number: 0503

Product number: 45574

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| | | |
|--|--|---|
| | <p>types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F;</p> <p>(b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10;</p> <p>(c) hazard class 4.1;</p> <p>(d) hazard class 5.1.</p> | <p>with ornamental aspects,</p> <p>2. Articles not complying with paragraph 1 shall not be placed on the market.</p> <p>3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:</p> <p>— can be used as fuel in decorative oil lamps for supply to the general public, and,</p> <p>— present an aspiration hazard and are labelled with H304,</p> <p>4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).</p> <p>5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:</p> <p>a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life-threatening lung damage";</p> <p>b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage";</p> <p>c) lamp oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.</p> <p>6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled H304, intended for supply to the general public.</p> <p>7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.'</p> |
|--|--|---|

National legislation Belgium

MULTI SPRAY

No data available

National legislation The Netherlands

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| | |
|-------------------|---|
| Waterbeveiligheid | Z (2); Algemene Beoordelingsmethodiek (ABM) |
|-------------------|---|

National legislation France

MULTI SPRAY

No data available

National legislation Germany

MULTI SPRAY

| | |
|-----|--|
| WGK | 1; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017 |
|-----|--|

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| | |
|---------|-------|
| TA-Luft | 5.2.5 |
|---------|-------|

white mineral oil (petroleum)

| | |
|---------|---------|
| TA-Luft | 5.2.5/I |
|---------|---------|

National legislation United Kingdom

MULTI SPRAY

No data available

Other relevant data

MULTI SPRAY

No data available

white mineral oil (petroleum)

| | |
|------------------|--|
| TLV - Carcinogen | Mineral oil, pure, highly and severely refined; A4 |
|------------------|--|

15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

SECTION 16: Other information

Full text of any H-statements referred to under heading 3:

H220 Extremely flammable gas.
H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H280 Contains gas under pressure; may explode if heated.
H304 May be fatal if swallowed and enters airways.

(*) INTERNAL CLASSIFICATION BY BIG
ADI Acceptable daily intake
AOEL Acceptable operator exposure level
CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

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Date of revision: 2019-05-06

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| | |
|-------|--|
| DMEL | Derived Minimal Effect Level |
| DNEL | Derived No Effect Level |
| EC50 | Effect Concentration 50 % |
| ErC50 | EC50 in terms of reduction of growth rate |
| LC50 | Lethal Concentration 50 % |
| LD50 | Lethal Dose 50 % |
| NOAEL | No Observed Adverse Effect Level |
| NOEC | No Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| PBT | Persistent, Bioaccumulative & Toxic |
| PNEC | Predicted No Effect Concentration |
| STP | Sludge Treatment Process |
| vPvB | very Persistent & very Bioaccumulative |

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.